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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/855,626	05/15/2001	Harm Jan Willem Belt	PHNL 000297	9253	
24737 7	7590 08/12/2005		EXAMINER		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			GRIER, LAURA A		
P.O. BOX 300 BRIARCLIFF	1 MANOR, NY 10510	ART UNIT	PAPER NUMBER		
5. a. a. (5 2)	22.019 1.1 10010		2644		
		•	DATE MAILED: 08/12/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		1	Application No.	Applicant(s)				
Office Action Summary			09/855,626	BELT ET AL.				
		T	Examiner	Art Unit				
·		l l	Laura A. Grier	2644				
The l Period for Repl	MAILING DATE of this commur Y	nication appea	ars on the cover sheet w	vith the correspondence a	ddress			
THE MAILIN - Extensions of the after SIX (6) M - If the period form of the period form	NED STATUTORY PERIOD F IG DATE OF THIS COMMUN ime may be available under the provisions ONTHS from the mailing date of this common reply specified above is less than thirty (3 reply is specified above, the maximum structure of the reply within the set or extended period for reply ived by the Office later than three months term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(munication. 30) days, a reply w tatutory period will y will, by statute, ca	(a). In no event, however, may a ithin the statutory minimum of th apply and will expire SIX (6) MO ause the application to become A	reply be timely filed irty (30) days will be considered tim NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).	ely. communication.			
Status								
1)⊠ Respo	nsive to communication(s) file	ed on <u>11 May</u>	<u>/ 2005</u> .					
2a)⊠ This a	ction is FINAL .	2b)∐ This a	ction is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of (Claims							
4a) Of 5)⊠ Claim(6)⊠ Claim(7)⊠ Claim(•							
Application Pa	pers							
10)☐ The dra Applica Replac	ecification is objected to by the awing(s) filed on is/are ant may not request that any objected to declaration is objected to	: a)☐ accep ection to the dra g the correction	awing(s) be held in abeya n is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 C				
		o by the Laai	illier. Note the attache	d Office Action of form P	10-152.			
a)□ AII 1.□ 2.□ 3.□	viedgment is made of a claim b) Some * c) None of: Certified copies of the priority Certified copies of the priority Copies of the certified copies application from the Internation attached detailed Office action	documents he documents he of the priority onal Bureau (nave been received. nave been received in A A documents have beer PCT Rule 17.2(a)).	Application No n received in this Nationa	l Stage			
Attachment(s)								
2) Notice of Draft 3) Information Di	erences Cited (PTO-892) Itsperson's Patent Drawing Review (Page 1864) Itsperson's Patement(s) (PTO-1449 or 1864) Itali Date		Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PT 	O-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. Claims 8-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 2. Claim 8 recites the limitation "the adaptive filter" in line 9. There is insufficient antecedent basis for this limitation in the claim.
- 3. Claim 9 recites the limitation "the second adaptive echo canceller section" in line 2.

 There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Rasmusson et al., U. S. Patent No.6549627.

Regarding **claim 1**, Rasmusson et al. (herein, Rasmusson) discloses generating calibration signals for an adaptive beamformer (figures 5 and 6). Rasmusson's disclosure comprises a method and system of multiple inputs (405, and 405) coupled to an adaptive

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beamformer (417), which is used as acoustic echo canceller (abstract), wherein the echo canceling data is maintained in the adaptive filters (415/413) – memory, which reads kept data of individual history of each input signal, wherein the echo data is supplied to the beamformer, which reads on combined with current adaptive beamforming data (col. 3, lines 9-20, and col. 5, lines 8-64, lines 67 - col. 7, lines 1-14).

Regarding **claim 2**, Rasmusson discloses everything claimed as applied above (see claim 1). Rasmusson discloses in figures 5 and 6 respective inputs in parallel paths containing an acoustic path and beamformer path, where the signal paths are summed with adders and processed by the adaptive filters and beamformer.

Regarding **claim 3**, Rasmusson discloses everything claimed as applied above (see claim 1). Rasmusson further discloses the beamformer as an echo canceller, thus the adaptive beamformer comprises filtering (col. 6, lines 36-41).

Allowable Subject Matter

- 6. Claim 11 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 8-9 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 8. Claims 4-7, and 10 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 4 and 10, respectively, the prior art of record is drawn to a beamformer and an echo canceller coupled to together for processing acoustics inputs. However, the prior art of record fails to specifically disclose or fairly suggest the beamformer and echo canceller working simultaneously, therein as claimed.

Response to Arguments

9. Applicant's arguments, see page 6, filed 5/11/05, with respect to claims have been fully considered and are persuasive. The rejection and objection of claims 4-10 has been withdrawn.

The applicant argues on page 5 that the beamformer of Rasmusson et al. is a fixed beamformer and not adaptive, in respect to figure 5 and 6. Rasmusson's disclose indicates that the beamformer becomes adapted at the time of calibration, which constitutes the beamformer being adaptive (col. 5, lines 67 and col. 6, lines 1-17). And the applicant also argued that the echo canceller of figure 5 is fixed, however, the echo canceller of figure 6 can be adaptive or fixed. Thus, the Rasmusson et al. rejection has been maintained for claims 1-3.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura A. Grier whose telephone number is (571) 272-7518. The examiner can normally be reached on Monday - Friday, 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
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